20 3	30 40	1 20 1 60	1 70		06	100		
, – 07 –	_	_	-	08	06	100		
1 GCCACGAAGG CCCAGACTTT GAC		CGTTCTT CACCACCACT CCAGCCTCCT	CCTGTGAACT CACTGACCAC	CACTGACCAC	CGAGAACAGA	TTCCACTCTT '	TACCATTCAG	100
101 TCTCACCAAG ATGCCCAATA CCAATGGAAG TATTGGCCAC	FA CCAATGGAAG	TATTGGCCAC AGTCCACTTT	CTCTGTCAGC	CCAGTCTGTA	ATGGAAGAGC '	TAAACACTGC	ACCCGTCCAA	200
201 GAGAGICCAC CCTIGGCCAI GCCTCCTGGG	AT GCCTCCTGGG	AACTCACATG GTCTAGAAGT	GGGCTCATTG	GCTGAAGTTA	AGGAGAACCC	TCCTTTCTAT (GGGGTAATCC	300
301 GTTGGATCGG TCAGCCACCA GGA	CA GGACTGAATG	AAGTGCTCGC TGGACTGGAA	CTGGAAGATG	AGTGTGCAGG	CTGTACGGAT (GGAACCTTCA	GAGGCACTCG	400
401 GTATTTCACC TGTGCCCTGA AGAAGGCGCT GTTTGTGAAA	SA AGAAGGCGCT	GTTTGTGAAA CTGAAGAGCT	GCAGGCCTGA	CTCTAGGTTT	GCATCATTGC	AGCCGGTTTC	CAATCAAGAT	200
501 TGAGCGCTGT AACTCTTTAG CATTTGGAGG	NG CATTITICGAGG	CTACTTAAGT GAAGTAGT:G	AAGAAAATAC	T:CCA:CCAA AAATGGAAAA AGAARGCTTG	AAATGGAAAA		GAGATAATGA	009
601 TTGGGGAAAG AÁGAAAGGCA TCCAAGGGTC	CA TCCAAGGGTC	ATTACAATTC TTGKTACTTA	G: ACTCAACC	TTATTCTKGC	TTATTTKGCT TTTAGTTCTG		TTCTNGGACA	700
701 CTGGTGTTAC TTTAGACCCC AAA	CC AAAGAAAAAG	AAACGATGTT AGAATATTWT	WKWGMMACCC	AAGAGCTACT	GAGGACAGAA ATTGTTAATC		CTCTGAGAAT	800
801 ATATGGATAT GTGTGCCA CAAAAATTAT	CA CAAAAATTAT	GAAACTGAGG AAAATACTTG	AAAAGGTGGA	GGCTGCATCA	GGATTTACCT	CTGAAGAAAA AGATCCTGAG		006
901 GAATTCTTGA ATATTCTGTT TCA	IT TCATCATATT	TTAAGGGTAG AACCITTGCT	AAAAATAAGA	TCAGCAGGTC	AAAAGGTACA	TCAGCAGGTC AAAAGGTACA AGATTGTTAC TTCTATCAAA		1000
1001 TTTTTATGGA AAAAAATGAG AAAGTTGGCG	NG AAAGTTGGCG	TTCCCACAAT TCAGCAGTTG	TTAGAATGGT	CTTTTATCAA	CAGTAACCTG	CTTTTATCAA CAGTAACCTG AAATTTGCAG AGGCACCATC		1100
1101 ATGTCTGATT ATTCAGATGC CTCGATTTGG	SC CTCGATTTGG	AAAAGACTTT AAACTATTTA	AAAAATTTT	CCTTCTCTGG	AATTAGATAT	CCTTCTCTGG AATTAGATAT AACAGATTTA CTTGAAGACA	CTTGAAGACA	1200
1201 CCCCAGACAG TGCCGGATAT GTGGAGGGCT TGCAATGTAT	AT GTGGAGGGCT	TGCAATGTAT GAGTGTAAGA	ATGCTACGAC	GATCCGGACA CCAGCTGGAA AAACAAGCAG	CCAGCTGGNA	AAACAAGCAG	TTTTGTAAAA	1300
1301 CCTGCAACAC TCAAGTCCAC CTTCATCCGA AGAGGCTGAA	AC CTTCATCCGA	AGAGGCTGAA TCATAAATAT	AACCCAGTGT	CACTTCCCAA AGACTTACCC	AGACTTACCC	CGACTGGGAG	ATTGGAGACA	1400
1401 CGGCTGCATC CCTTGCCAGA ATATGGAGTT	GA ATATGGAGIT	ATTTGCTGTT CTCTGCATAG	NAACAAGCCA	CTATGTTGCT TTTGTGAAGT ATGGGAAGGA	TTTGTGAAGT	ATGGGAAGGA	CGATTCTGCC	1500
1501 TGGCTCTTCT TTGGACAGCA TGGCCGATCC GGGATGGTGG	CA TGGCCGATCC	GGGATGGTGG TCAGAATGGC	TCAACATTCC	CCCAAGTCMC	CCMTGSCCCA	GAAGTAGGAG	AGTACTTGGA	1600
1601 AGATGTCTCC TGGAAGACCC TGSAWTYCCT TGGACTCCCA	CC TGSAWTYCCT	TGGACTCCCA GGAGAATCCC	AAGGCTGTGC	ACGAAGACTG	CTTTGTGATG	CCATATATGT	GCCATGTACC	1700
1701 CAGAGTCCAA CAATGAGTTT GTACAAATAA	TT GTACAAATAA	CTGGGGGTCA TCGGGAAAGG	CAAAGAAACT	GGAAGGCAGA GTCCCTAACG		TTGCATCTTA TTCGGAGCTG	TTCGGAGCTG	1800
1801 GCAGTTCTGT TCACGGTCCA TTGCCGGCAA TGGATGTCTT	CA TTGCCGGCAA	TGGATGTCTT TGTGGTGATG		ATCCTTCAGA AAAGGATGCC	TCTGTTTAAA AACAAATTGC		TTTTGTGTCC	1900
1901 CTGAAGTATT TAATAAGAAG CATTTTGCAC	AG CATTTTGCAC	TCTAGAAAGT ATGTTTGTGT		TGGTTTTTTA AGAAGTCTAA ATGAAGTTAT		TAATACCTGA	AGCTTTYAAGT	2000
2001 TAAGTGCATT GATCATATGA TATTTTGGA AGCATACAAT	GA TATTTTGGA	AGCATACAAT TTTAATTGŢG	GAAGTTTAAA	GCCTCTTTTA	GTCCATTGAG	GAAGTTTAAA GCCTCTTTTA GTCCATTGAG AATGTAAATA AATGTGTCTT	AATGTGTCTT	2100
2101 CTTTATGGAA AAAAAA								2116
1 10	20 30	40 50	09	1 70	80	1 90	100	

DOMPINS. COMBCO

1901 GTGGGCTCAT TGGCTGAAGT TAAGGAGAAAAC CCTCCTTTCT ATGGGGTAAT CCGTTGGATC GGTCAGCCAC CAGGACTGAA TGAAGTGCTC GCTGGACTGG 2000 901 GAGATCTGGG GAAGAAAATTTCCTGGAGT TGTACGCTTC AGAGGACCCC TGTTAGCAGA GAGGACAGTC TCCGGAATAT TCTTTGGAGT TGAATTGCTG 1000 1 GGGGTTITCT TITACACITC TICGGTACCG AACTCGGATC CACTAGTAAC GGGCCGCCAG TGTGCTGGAA ATTCGGCACG AGGGTGTGGG GAGCCGGGGC 100 AGCCACCCGG 200 601 ACAAAAAGCTC CTTAAAGTAC CGAAAAG TATAGGACAG TATATTCAAG ATCGTTCTGT GGGGCATTCA AGGATTCCTT CTGCAAAAGG CAAGAAAAT 700 701 CAGATTGGAT TAAAAAATTCT AGACCAACCT CATGCAGTTC TCTTTGTTGA TGAAA.GGAT GTTGTAGAGA TAAATGAAAA GTTCACAGAG TTACTTTTGG RIII 801 CAATTACCAA TTGTGAGGAG AGGTTCAGCC TGTTTAAAAA CAGAAACAGA CTAAGTAAAG GCCTCCAAAT AGACGTGGGC TGTCCTGTGA AAGTACAGCT 900 1001 GAAGAAGGTC GTGGTCAAGG TFTCACTGAC GGGGTGTACC AAGGGAAACA GCTTTTTCAG TGTGAAG ATTGTGGCGT GTTTGTTGCA TTGGACAAGC HOO HOLTAGAACTICAT AGAAGATGAT GACACTGCAT TGGAAAGTGA TTACGCAGGT CCTGGGGACA CAATGCAGGT CGAACTTCCT CCTTTGGAAA TAAACTCCAG 1200 1201 AGTITICITIG AAGGGIGGAG AAACAATAGA ATCIGGAACA GTIATATICT GIGATGITIT GCCAGGAAAA GAAAGCITAG GATATITIGT TGGTGTGAC 1300 1301 ATGGATAACC CTATTGGCAA CTGGGATGGA AGATTTGATG GAGTGCA:CT TTGTAGTTTF GCGTGTGTTG AAAGTACAAT TCTATTGCAC ATCAATGATA 1400 ISOI GOCTACAGGA TETACETEAG ACCETGGAAA TAGAAMCAGA TETGAATTAT TITATACCTT AAATGGGTCT TETGTTGACT CACAACCACA ATCCAAATEA IMD 1601 AAAAATACAT GGTACATTGA TGAAGTTGCA GAAGACCCTG CAAAATCTCT TACAGAGATA TCTACAĞACT TTGACCGTTC TTCACCACCA CTCCAGCCTC 1700 1701 CTCCTGTGAA CTCACTGACC ACCGAGAACA GATTCCACTC TTTACCATTC AGTCTCACCA AGATGCCCAA TACCAATGGA AGTATTGGCC ACAGTCCACT 1800 1801 TTCTCTGTCA GCCCAGTCTG TAATGGAAGA GCTAAACACT GCACCCGTCC AAGAGAGTCC ACCCTTGGCC ATGCCTCCTG GGAACTCACA TGGTCTAGAA 1900 2001 AACTGGAAGA TGAGTGTGCA GGCTGTACGG ATGGAACCTT CAGAGGCACT CGGTATTTCA CCTGTGCCCT GAAGAAGGCG CTGTTTGTGA AACTGAAGAG 2100 301 TCTTCATGGA AAATTGATAA ATAİTTGTGC CTTCCAACTC TCGTCTTGGT TGAATGACTT CATCTTAATA CAACATGGAC ACCACGTTGC TGAAAACATG 400 1401 TCATCCCAGA GAGTGTGACG CAGGAAAGGA GGCCTCCCAA ACTTGCCTTT ATGTCAAGAG GTGTTGGGGA CAAAGGTTCA TCCAGTCATA ATAAACCAAA 1500 401 CTITIGGGACT GCCACTGAAT TIATCTITIG CGGTTTTATG ACAAAGTTAT TAGTAGTTTC CCTTTTTTGA ATTAGTATTT TGAAGTTAAT ATCACAATGA 501 GTICAGGCIT ATGGAGGCAA GAAAAAGTCA CITCACCCTA CIGGGAAGAG CGGATTITITI ACTITGCITCI TCAAGAATGC AGCGTTACAG ACAAACAAAC 201 AGTICCTI'NG TIGAAAGGIG CGCCCIGCIG IGACAGAATG IGGTAAITGI AATCTTIAAC ATITICATGI AAAACATAIT ICCTGATCAT CTITICCAI'IG 2101 CTGCAGGCCT GACTCTAGGT TTGCATCATT GCAGCCGGTT TCCAATCAGA TTGAGCGCTG TAACTCTTTA GCATTTGGAG GCTACTTAAG TGAAGTAGTA 2201 GAAGAAAATA CTCCACCAAA AATGGAAAAA GAAGGCTTGG AGATAATGAT TGGGAAGAAG AAAGGCATCC AGGGTCATIA CAATTCTTGT TACTTAGACT 101 CGGCCCGGGA CGCGGGCTGG GGAGGCGG CGAGGGGGGGA CGCCCCGCCG CCCGAGTTTC CCCTTTTCTA GGGTGAGGAT GGTTCTACAC

FIG. 2A

DOMYLWBY DOWNDO

8001 GTCACTTCCC AAAGACTTAC CCGACTGGGA CTGGAGACAC GGCTGCATCC CTTGCCAGAA TATGGAGTTA TTTGCTGTTC TCTGCATAGA AACAAGCCAC 3100 HINTATGITICIT TIGITGAAGTA TGGGAAGGAC GATICITGCCT GGCTCTICIT TGACAGCATG GCCGATCGGG ATGGTGGTCA GAATGGCTTC AACATTCCTC 3200 3301 GCTTTGTGAT GCATATATGT GCATGTACCA GAGTCCAACA ATGAGTTTGT ACAAATAACT GGGGTCATCG GGAAAGGCAA AGAAACTGAA GGCAGAGTCC 3400 3501 AAAAACAAAT TGCTTITIGTG TCCCTGAAGT ATTTAATAAG AAGCATTTTG CACTCTAGAA AGTATGITTG TGTTGGTTTT TTAAGAAGTC TAAATGAAGT 3600 2401 GCTACTIGAGG ACAGAAATTG TTAATUCTCT GAGAATATAT GGATATGTGT GTGCCACAAA AATTATGAAA CTGAGGAAAA TACTTGAAAA GGTGGAGGCT 2500 2501 GCATCAGGAT TTACCTCTGA AGAAAAAGAT CCTGAGGAAT TCTTGAATTCAT CATAITITAA GGGTAGAACC 11TGCTAAAA ATAAGATCAG 2600 3201 AAGTCACCC ATGCCCAGAA GTAGGAGAGT ACTTGAAGAT GTCTCTGGAA GACCTGCATT CCTTGGACTC CAGGAGAATC CAAGGCTGTG CACGAAGACT 3300 4401 TAACGITIGCA TETTATTEGA GETGGEAGTF CTGTFCACGT CCATTGCCGG CAATGGATGT CTTTGTGGTG ATGATCCTTC AGAAAAGGAT GCCTCTTT 3500 8601 TATTAATACC TGAAGCITTA AGTTAAGTGC ATTGATCATA TGATATTITT - GGAAGCATAC AATTITAATT - GTGGAAGTTT - AAAGCCTCTF 1TAGTCCATT 3700 2601 CAGGICAAAA GGIACAAGAT TGITACITICI ATCAAATITI TATGGAAAAA AATGAGAAAG ITGGCGTTCC CACAATTCAG CAGTTGITAG AATGGICTIT 2700 2801 TCTCTGGAAT TAAATATAAC AGATTTACTT GAAGACACTC CCAGACAGTG CCGGATATGT GGAGGGCTTG CAATGTATGA GTGTAGAGAA TGCTACGACG 2900 2901 ATCCGGACAT CTCAGCTGGA AAAATCAAGC AGTTTTGTAA AACCTGCAAC ACTCAAGTCC ACCTTCATCC GAAGAGGCTG AATCATAAAT ATAACCCAGT 3000 2701 TATCAACAGT AACCTGAAAT TTGCAGAGGC ACCATCATGT CTGATTATTC AGATGCCTCG ATTTGGAAAA GACTTTAAAC TATTTAAAAA AATTTTCCT 2800 3701 GAGAATGTAA ATAAA

FIG. 21

DSG716G7.DSG6DD

8 MSS	MSS GLWSQEKVTS	PYWEERIEYL	LLQECSVTDK	QTOKLLKVPK	GSIGQYIQDR	SVGHSRIPSA KGKKNQIGLK	ILEQPHAVLF	VDEDVVEINE	100
101 KFTELLLAIT NCEERFSLFK	NCEERFSLFK	NRNR1,SKGLQ	IDVGCPVKVQ	LRSGEEKFPG	VVRFRGPLLA	ERTVSGIFFG VELLEEGRGO	GFTDGVYQGK	QLFQCDEDCG	200
201 FVALDKLEL	IEDDDTALES	DYAGPGDTMQ	VELPPLEINS	RVSLKGGETI	ESGTVIFCDV	LPGKESLGYF VGVDMDNPIG	NWDGRFDGVL	CSFACVESTI	300
301 LLHINDIIPE	SVTQERRPPK LAFMSRGVGD	LAFMSRGVGD	KGSSSHNKPK	ATGSTSDPGN	RRSELFYTLN	GSSVDSQPQS KSKNTWYIDE	VAEDPAKSLT	EISTOFDRSS	400
401 PPLQPPVNS	LTTENRFHSL	PESLTKMPNT	NGSIGHSPLS	LSAQSVMEEL	NTAPVQESPP	LAMPPGNSHG LEVGSLAEVK	ENPPFYGVIR	WIGQPPGLNE	200
501 VLAGLELEDE	CAGCTDGTFR	GTRYFTCALK	KALFVKLKSC	RPDSRFASLQ	PVSNQIERCN	SLAFGGYLSE VVEENTPPKM	EKEGLEIMIG	KKKGIQGHYN	009
601 SCYLDSTLFC LFAFSSVLDT	LFAFSSVLDT	VLLRPKEKND	VEYYSETQEL	LRTEIVNPLR	IYGYVCATKI	MKLRKILEKV EAASGFTSEE	KDPEEFLNIL	FHHILRVEPL	700
701 LKIRSAGQKV QUCYFYQIFM	QDCYFYQIFM	EKNEKVGVPT	IQQLLEWSFI	NSNLKFAEAP	SCLIIQMPRF	GKDFKLFKKI FPSLELNITD	LLEDTPRQCR	ICGGLAMYEC	800
801 RECYDDPDIS AGKIKQFCKT	AGKIKQFCKT	CNTQVHLHPK	RLNHKYNPVS	LPKDLPDWDW	RHGCIPCQNM	ELFAVLCIET SHYVAFVKYG	KDDSAWLFFD	SMADRDGGQN	006
901 GFNJFQVTPC PEVGEYLKMS LEDLHSLDSR	PEVGEYLKMS	LEDLHSLDSR	RIQGCARRLL	CDAYMCMYQS	PTMSLYK				957

FIG.3